

$$Z \ni L \mapsto \begin{bmatrix} 1/\sqrt{2} & L & -LL^+/\sqrt{2} \end{bmatrix} \in \mathbb{C}_{\text{null}}^{1+n+1}$$

$$\begin{bmatrix} 1/\sqrt{2} & L & -LL^+/\sqrt{2} \end{bmatrix} \begin{bmatrix} 0 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 0 \end{bmatrix} \begin{bmatrix} 1/\sqrt{2} \\ L^+ \\ -LL^+/\sqrt{2} \end{bmatrix} = 0$$

$$\begin{aligned} \mathfrak{O}_{\mathbb{K} \times \mathbb{L} \times \mathbb{K}} &= \frac{\mathbb{L} \in \mathbb{K} \times \mathbb{L} \times \mathbb{K}}{\mathbb{L} \begin{bmatrix} 0 & 0 & * \\ 0 & * & 0 \\ * & 0 & 0 \end{bmatrix} \mathbb{L}^* = 0} \supset \mathbb{L} \end{aligned}$$

$$\begin{aligned} \mathfrak{O}_{\mathbb{K}^{1+n+1}} &= \frac{\mathbb{L} \in \mathbb{K}^{1+n+1}}{\mathbb{L} \begin{bmatrix} 0 & 0 & * \\ 0 & * & 0 \\ * & 0 & 0 \end{bmatrix} \mathbb{L}^* = 0} \supset \mathbb{K}^n \end{aligned}$$

$$\mathbb{K} \begin{bmatrix} 1 & L & -LL^+/2 \end{bmatrix} \leftarrow L$$

$$L S_0 = -L$$

$$S_0 = \text{Int } \mathcal{U}$$